

DOUBLE GATE KNIFE GATE VALVE

The **L10** model knife gate is a bi-directional valve widely used in the Pulp and Paper industry (recycling or secondary fibre processing) designed to handle high concentrated or contaminated media. In open position, both gates retract into the body and allow full flow. When closing, the gates push stock and contaminants as staples, wires,... out of the body into the flow.

Stroke time is one half of conventional valves.

All components subject to wear are replaceable.

Sizes: DN 100 to DN 600 (larger diameters on request)

Working pressure:

DN 100 to DN 250: 10 kg/cm²

DN 300 to DN 400: 6 kg/cm²

DN 450: 5 kg/cm²

DN 500 to DN 600: 4 kg/cm²

Standard flange connection: DIN PN 10 and ANSI B16.5 (class 150)

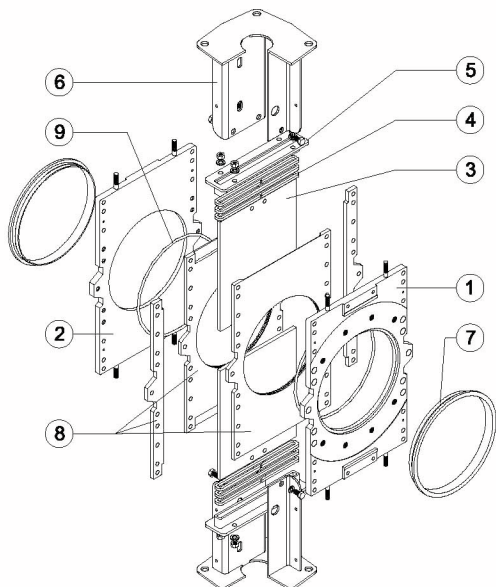
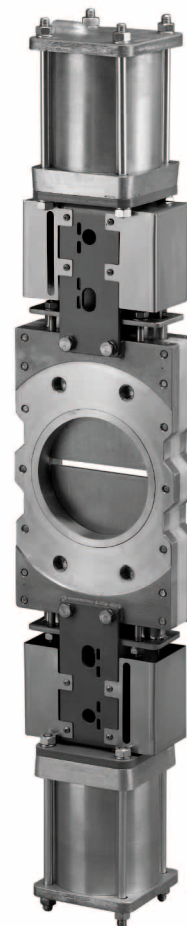
Note: other flange connections are available on request.

Directives: DIR 98/37/CE (MACHINES)

DIR 97/23/CE (PED) Fluid: Group I (b), 2 (Cat. I, mod. A)

DIR 94/9/CE (ATEX) Group II, Cat. 3: zones 2 and 22

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control Department at LUCAVAL.

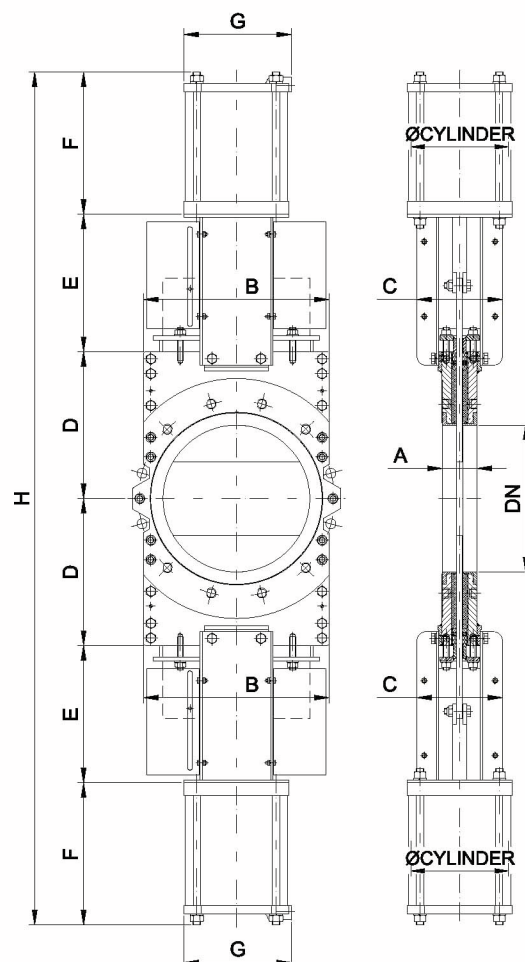


STANDARD PARTS LIST

Part:	Carbon Steel:	Stainless steel:
1- Body	Carbon steel	AISI 316
2- Counterbody	Carbon steel	AISI 316
3- Gate	AISI 304	AISI 316
4- Packing	Tallowed cotton	PTFE Impreg. Synth. Fibre (Both versions with a EPDM o-ring)
5- Gland Follower	Carbon Steel	AISI 316
6- Yoke	Carbon Steel-Epoxy Coated	
7- Seat rings	CF8M	
8- Body Liner	UHMW Polyethylene	
9- O-ring	Nitrile	

DOUBLE ACTING PNEUMATIC CYLINDERS

- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless Steel (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 100 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 10 kg/cm²
- Reinforced design of support plates (U-type) is standard starting from DN 250.
- Options:
 - Hard anodized jacket and covers
 - Over / Undersized cylinder
 - Stainless Steel jacket and covers
 - Manual override
 - Fail safe system
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Flow regulators
 - Solenoid valves
 - Air preparation units

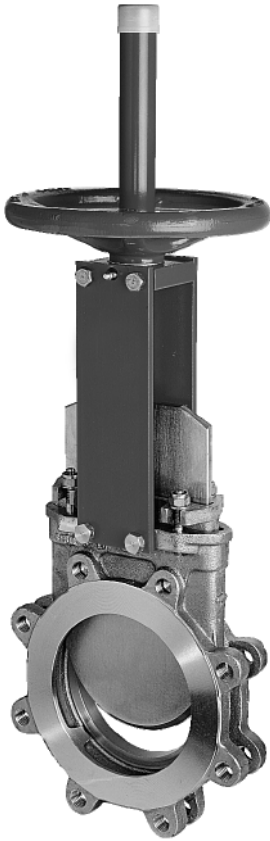


DN	A	B	C	D	E	F	G	H	Weight (kg.)	Standard Cyl	Connect
100	50	162	100	140	132	169	115	882	48	C100/55	1/4" G
125	50	210	100	146	142	179	140	934	56	C125/67,5	1/4" G
150	60	215	100	175	154	206	140	1070	67	C125/80	1/4" G
200	60	265	165	210	204	241	175	1310	80	C160/105	1/4" G
250	70	330	270	265	231	285	220	1562	90	C200/130	3/8" G
300	70	380	270	300	256	310	220	1732	160	C200/155	3/8" G
350	96	450	270	325	325	340	277	1980	255	C250/185	3/8" G
400	100	510	270	350	355	365	277	2140	340	C250/210	3/8" G
450	106	565	270	405	379	401	382	2370	405	C300/235	1/2" G
500	110	610	270	450	420	445	382	2630	490	C300/260	1/2" G
600	110	715	270	500	470	495	382	2930	580	C300/310	1/2" G

L15

MODEL

HEAVY DUTY KNIFE GATE VALVE



The L15 model knife gate is a uni-directional lug type valve designed according to MSS-SP-81 and TAPPI TIS 405-8 for industrial service applications. The design of the body and seat assures non-clogging shutoff on suspended solids in industries such as:

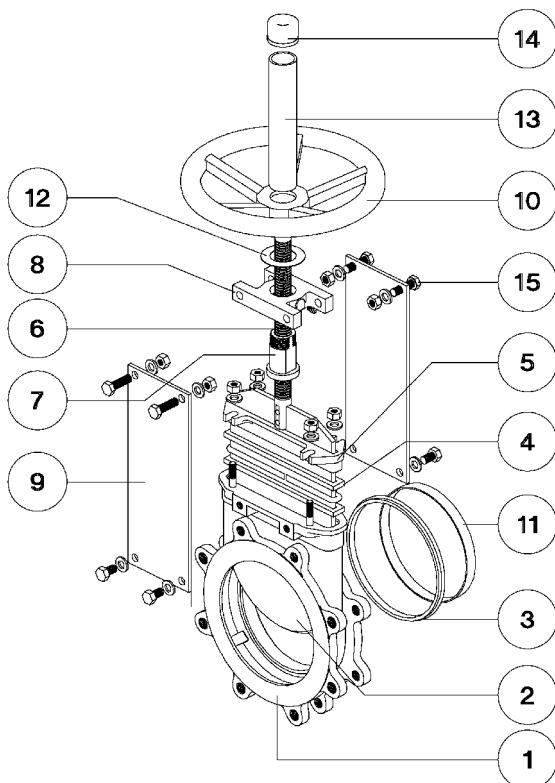
- Pulp and Paper
- Chemical plants
- etc.
- Power plants
- Wastewater
- Mining
- Food and Beverage

Sizes: DN 50 to DN 600 (larger diameters on request)

Working pressure: DN 50 to DN 600: 10 (kg/cm²)

Standard flange connection: DIN PN 10 and ANSI B16.5 (class 150)

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control department at LUCAVAL.



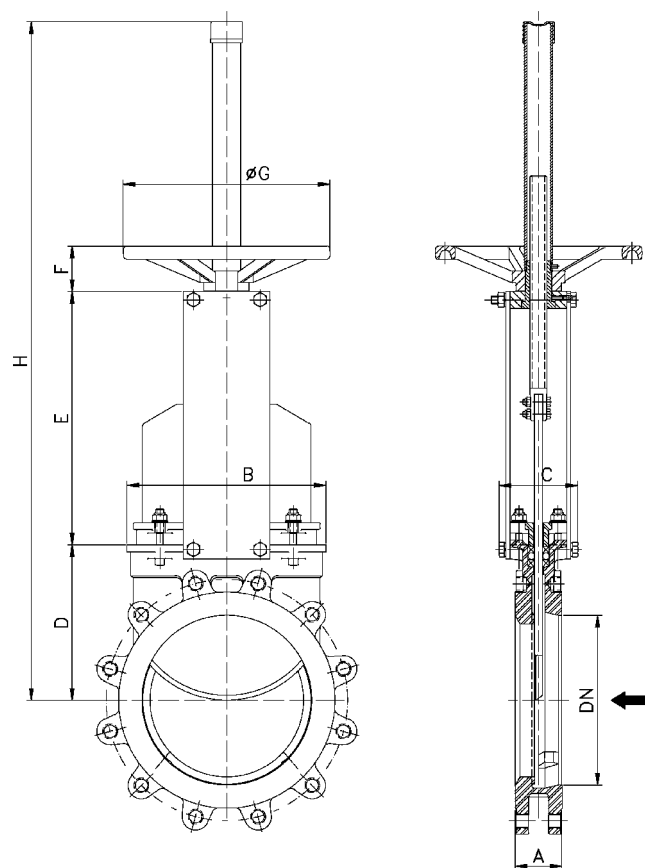
STANDARD PARTS LIST

Part:	Stainless Steel:
1- Body	CF8M
2- Gate	AISI 316
3- Seat	Metal or Resilient
4- Packing	NT
5- Gland Follower	CF8M
6- Stem	AISI 303
7- Stem Nut	Bronze
8- Yoke	Carbon Steel (DN 50 to DN 150) S.G. Iron (DN 200 to DN 1000)
9- Support Plates	Carbon Steel - Epoxy Coated
10- Handwheel	Steel (DN 50 to DN 300) S.G. Iron (DN 350 to DN 1000)
11- Seat Retainer Ring	AISI 316
12- Thrust Washer	Bronze
13- Stem Protector	Carbon Steel - Epoxy Coated
14- Cap	Plastic

L15

MODEL

HANDWHEEL (RISING STEM)

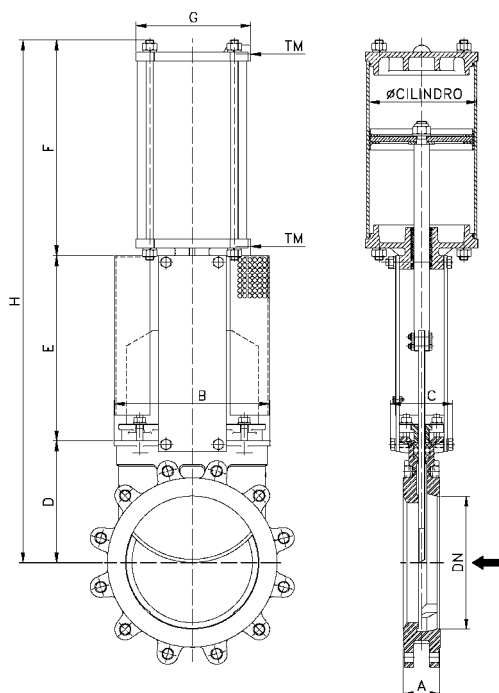


Standard handwheel actuator.

- Consists of:
 - Handwheel: Epoxy coated Cast Iron or Steel (DN 50 to DN 300)
 - Stem
 - Stem nut
 - Stem protector
 - Grease nipple
- Available in DN 50 to DN 600
- Options (on request):
 - Chainwheel
 - Non-rising stem
 - Locking Device
 - Extensions

DN ("/MM.)	A	B	C	D	E	F	ØG	H	WEIGHT (KG.)
2"/50	47,8	124	90	98	142	48	200	436	8
3"/80	50,8	149	90	119	168	48	200	476	10
4"/100	50,8	169	90	139	193	48	200	521	12,5
5"/125	57,2	169	104	150	217	52	250	607	16
6"/150	57,2	195	104	165	243	52	250	647	20
8"/200	69,8	247	118	203	318	63	300	828	32
10"/250	69,8	298	118	233	354	63	300	994	47
12"/300	76,2	349	118	273	396	63	410	1076	65
14"/350	76,2	393	193	312	465	68	410	1277	95
16"/400	89	441	193	347	512	68	410	1359	122
18"/450	89	483	197	382	552	68	550	1509	160
20"/500	114,2	542	197	431	611	68	550	1617	202
24"/600	114,2	637	197	501	697	68	550	1883	290

PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 7 kg/cm²
- For valves installed in a horizontal position, we recommend U-type support plates and/or actuator support.
- Options:
 - Hard anodised jacket and covers
 - Over / Under sized cylinder
 - Stainless jacket and covers
 - Manual override
 - Fail safe systems
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

DN ("/MM.)	A	B	C	D	E	F	G	H	WEIGHT (KG.)	STANDARD CYL	CONNECT
2"/50	47,8	124	90	98	142	170	95	410	10	C80/62	1/4" G
3"/80	50,8	149	90	119	168	203	95	496	12	C80/95	1/4" G
4"/100	50,8	169	90	139	193	224,5	115	556,5	15	C100/115	1/4" G
5"/125	57,2	169	104	150	217	267	140	634	21	C125/143	1/4" G
6"/150	57,2	195	104	165	243	292	140	700	27	C125/168	1/4" G
8"/200	69,8	247	118	203	318	355	175	876	46	C160/220	1/4" G
10"/250	69,8	298	118	233	354	413	220	1000	70	C200/270	3/8" G
12"/300	76,2	349	118	273	396	463	220	1132	89	C200/320	3/8" G
14"/350	76,2	393	193	312	465	540,5	277	1317,5	135	C250/375	3/8" G
16"/400	89	441	193	347	512	590,5	277	1449,5	162	C250/425	3/8" G
18"/450	89	483	197	382	552	660,5	382	1594,5	212	C300/475	1/2" G
20"/500	114,2	542	197	431	611	710,5	382	1752,5	290	C300/525	1/2" G
24"/600	114,2	637	290	501	697	810,5	382	2008,5	375	C300/625	1/2" G

L20

MODEL

WAFER STYLE KNIFE GATE VALVE



The **L20** model knife gate is a uni-directional wafer valve designed for general industrial service applications. The design of the body and seat assures non-clogging shut-off on suspended solids in industries such as:

- Pulp and Paper
- Wastewater treatment plants
- Food and Beverage
- Mining
- Power plants
- Chemical plants
- Bulk handling
- etc.

Sizes: DN 50 to DN 1000 (larger diameters on request)

Working pressure:

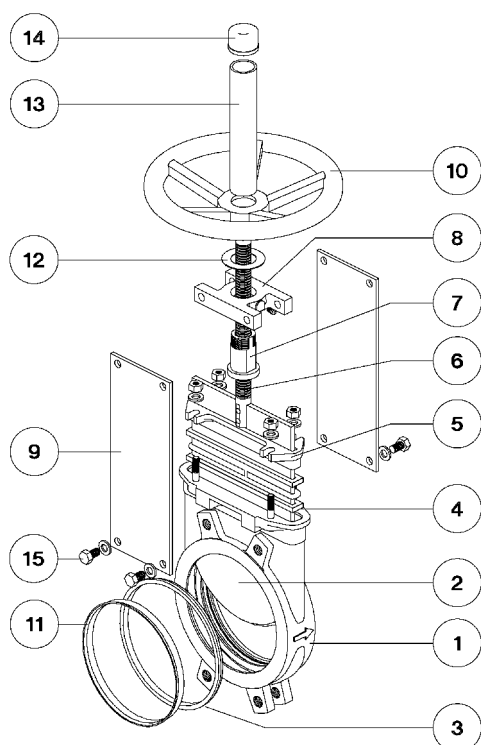
DN 50 to DN 250:	10 (kg/cm ²)
DN 300 to DN 400:	6 (kg/cm ²)
DN 450 :	5 (kg/cm ²)
DN 500 to DN 600:	4 (kg/cm ²)
DN 700 to DN 1000:	2 (kg/cm ²)

Standard flange connection: DIN PN 10 and ANSI B16.5 (class 150)

Note: other flange connections are available on request such as:

DIN PN 6	DIN PN 16	DIN PN 25
BS "D" and "E"	ANSI 125	

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control department at LUCAVAL

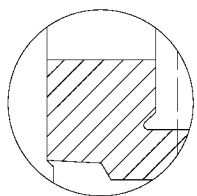


STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Gate	AISI 304	AISI 316
3- Seat	Metal or Resilient	
4- Packing	AH	NT
5- Gland Follower	Aluminum (DN 50 to DN 300)	CF8M
	S.G. Iron	
	(DN 350 to DN 1000)	
6- Stem	AISI 303	
7- Stem Nut	Bronze	
8- Yoke	Carbon Steel (DN 50 to DN 150)	
	S.G. Iron (DN 200 to DN 1000)	
9- Support Plates	Carbon Steel - Epoxy Coated	
10- Handwheel	Steel (DN 50 to DN 300)	
	CAST Iron (DN 350 to DN 1000)	
11- Seat Retainer Ring	AISI 304	AISI 316
12- Thrust Washer	Bronze	
13- Stem Protector	Carbon Steel - Epoxy Coated	
14- Cap	Plastic	

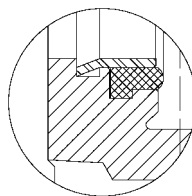
SEAT / SEALS			PACKING		
Material	Max.Temp.(°C)	Applications	Material	Max. Temp. (°C)	pH
Metal/Metal	>250	High temp. Low tightness.	Tallowed cotton (AH)	50	6 - 8
EPDM (E)	120	Acids and non mineral oils.	Dry cotton (AS)	50	6 - 8
Nitrile (N)	120	Resistance to petroleum products.	PTFE impregn. natural fibre (NT)	120	4 - 12
Viton (V)	200	General chemical service. High temperature.	PTFE impregn. synth. fibre (ST)	240	2 - 13
Silicone (S)	250	Food service. / High temperature.	Braided PTFE (TH)	260	0 - 14
PTFE (T)	250	Corrosion resistance.	Graphited (AG)	300	4 - 12
More details and other materials under request.			Ceramic fibre (FC)	1200	—
			NOTE: all types include an elastomere O-ring (same material as seal), excluding TH, AG and FC.		

SEAT TYPES



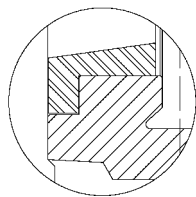
METAL / METAL

- High temperature
- High density media application
- Positive shut off



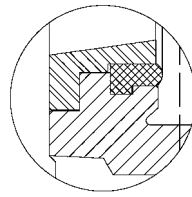
RESILIENT, TYPE "A"

- Standard resilient seat.
- Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information.
- Replaceable seat retainer ring.



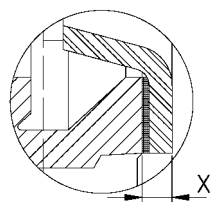
TYPE "B" SEAT (metal / metal)

- High temperature
- High density media application
- Positive shut off
- Replaceable design without dismantling the valve



TYPE "B" SEAT (resilient)

- Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information.
- Replaceable design without dismantling the valve



DEFLECTION CONE "C"

- Deflects the media away from any internal exposed parts of the valve such as gate guides, seat, etc....
- Different types of material available such as AISI 316 stainless, CA15, Ni-Hard, etc....

Face to face dimensions increase:

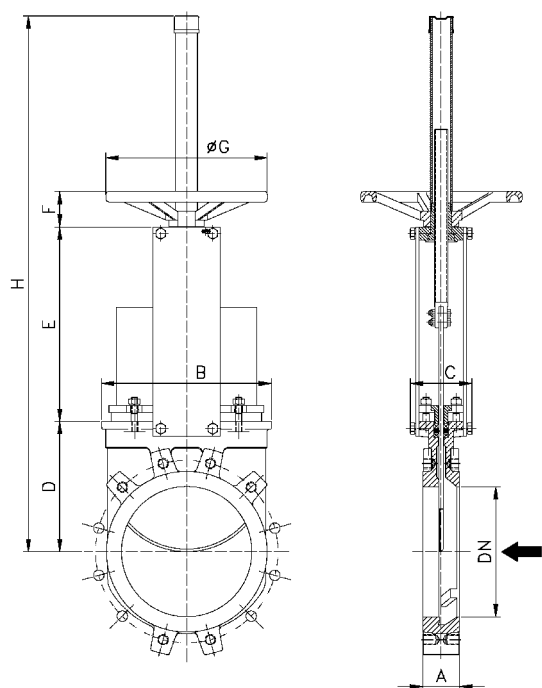
DN 50 to DN 250 = 9mm

DN 300 to DN 600 = 12mm

L20

MODEL

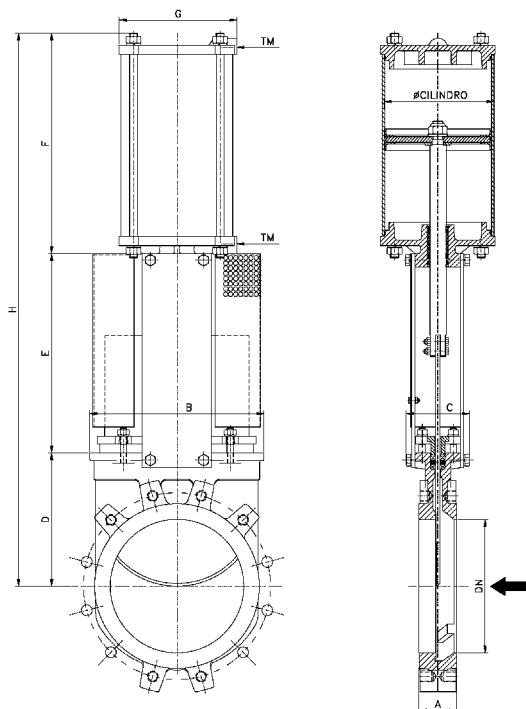
HANDWHEEL (RISING STEM)



- Standard handwheel actuator.
- Consists of:
 - Handwheel: Epoxy coated Cast Iron or Steel (DN 50 to DN 300)
 - Stem
 - Stem nut
 - Stem protector
 - Grease nipple
- Available in DN 50 to DN 1000
- Options:
 - Locking Device
 - Extensions

DN	A	B	C	D	E	F	ØG	H	WEIGHT (KG.)
50	40	124	90	105	135	48	200	429	7
65	40	139	90	115	152	48	200	456	8
80	50	154	90	124	168	48	200	481	9
100	50	174	90	140	193	48	200	522	11
125	50	192	104	150	217	52	250	606	15
150	60	217	104	175	243	52	250	657	18
200	60	270	118	205	318	63	300	830	30
250	70	326	118	250	373	63	300	1030	44
300	70	380	118	300	423	63	300	1130	58
350	96	438	193	338	503	68	410	1341	96
400	100	493	193	392	553	68	410	1445	124
450	106	546	197	432	603	68	550	1610	168
500	110	620	197	485	663	68	550	1723	192
600	110	714	197	590	763	68	550	2038	245
700	110	834	400	686	890	74	800	2370	405
750	110	884	400	760	945	74	800	2579	455
800	110	1015	320	795	989	74	800	2737	512
900	110	1040	320	900	1118	74	800	3051	680
1000	110	1150	320	980	1220	74	800	3319	865

PNEUMATIC CYLINDER



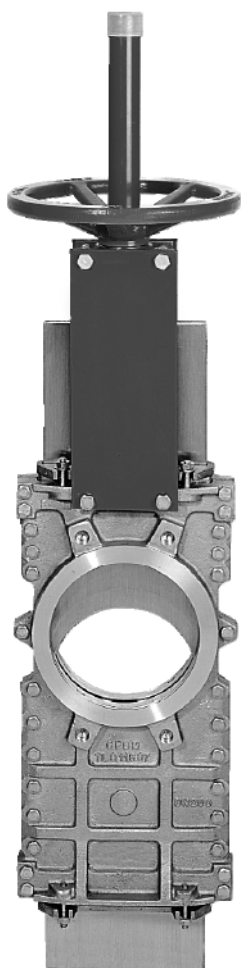
- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 50 to DN 1000
- Supply Pressure: minimum 3.5 kg/cm² - maximum 7 kg/cm²
- For valves installed in a horizontal position, we recommend U-type support plates and/or actuator support.
- Options:
 - Hard anodised jacket and covers
 - Over / Under sized cylinder
 - Stainless jacket and covers
 - Manual override
 - Fail safe system (Page EX-14)
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

DN	A	B	C	D	E	F	G	H	WEIGHT (KG.)	STANDARD CYL	CONNECT.
50	40	124	90	105	135	170	95	410	9	C80/62	1/4" G
65	40	139	90	115	152	186	95	453	10	C80/77	1/4" G
80	50	154	90	124	168	204	95	496	11	C80/95	1/4" G
100	50	174	90	140	193	225	115	558	14	C100/115	1/4" G
125	50	192	104	150	217	268	140	635	20	C125/143	1/4" G
150	60	217	104	175	243	292	140	710	25	C125/168	1/4" G
200	60	270	118	205	318	355	175	878	44	C160/220	1/4" G
250	70	326	118	250	373	413	220	1036	67	C200/270	3/8" G
300	70	380	118	300	423	463	220	1186	82	C200/320	3/8" G
350	96	438	193	338	503	541	277	1382	135	C250/375	3/8" G
400	100	493	193	392	553	591	277	1536	165	C250/425	3/8" G
450	106	546	197	432	603	669	382	1704	220	C300/475	1/2" G
500	110	620	197	485	663	719	382	1867	280	C300/525	1/2" G
600	110	714	197	590	763	819	382	2172	330	C300/625	1/2" G
700	110	834	400	686	890	970	444	2546	520	C350/730	3/4" G
750	110	884	400	760	945	1020	444	2725	585	C350/780	3/4" G
800	110	1015	320	795	989	1070	444	2854	650	C350/830	3/4" G
900	110	1040	320	900	1118	1185	515	3203	850	C400/930	3/4" G
1000	110	1150	320	980	1220	1285	515	3485	1060	C400/1030	3/4" G

L50

MODEL

THROUGH CONDUIT KNIFE GATE VALVE



The **L50** model knife gate is a bi-directional wafer valve designed for media with high consistency. The double seat design assures a non-clogging shut off on either normal or reverse flow. The valve is used in a wide range of demanding applications in industries such as:

- Pulp & Paper
- Power Plants
- etc.
- Wastewater Treatment Plants
- Chemical plants

Sizes: DN 50 to DN 600 (larger diameters on request)

Working pressure:

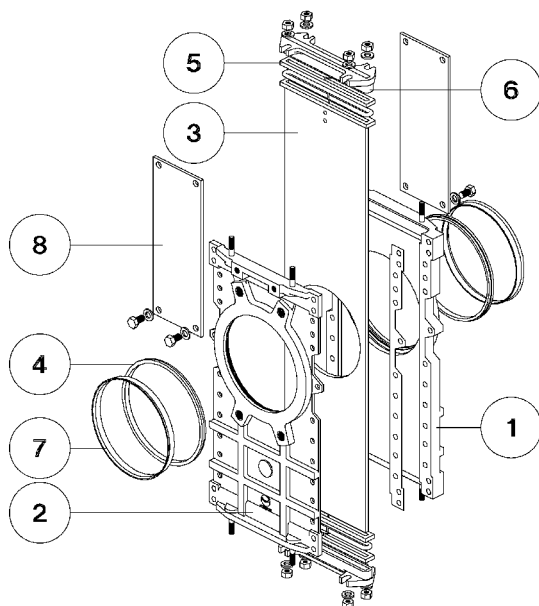
DN 50 to DN 250:	10 (kg/cm ²)
DN 300 to DN 400:	6 (kg/cm ²)
DN 450:	5 (kg/cm ²)
DN 500 to DN 600:	4 (kg/cm ²)

Standard flange connection: DIN PN 10 and ANSI B16.5 (class 150)

Note: other flange connections are available on request such as:

DIN PN 6	DIN PN 16	DIN PN 25
BS "D" and "E"	ANSI 125	

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control department at LUCAVAL.



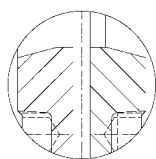
STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Body	GG25	CF8M
3- Gate	AISI 304	AISI 316
4- Seat	Metal or Resilient	
5- Packing	AH	NT
6- Gland Follower	Aluminum (DN 50 to DN 300) S.G. Iron (DN 350 to DN 1000)	CF8M
7- Seat Retainer Ring	AISI 304	AISI 316
8- Support Plates	Carbon Steel - Epoxy Coated	

SEAT / SEALS			PACKING		
Material	Max.Temp.(°C)	Applications	Material	Max. Temp. (°C)	pH
Metal/Metal	>250	High temp. Low tightness.	Tallowed cotton (AH)	50	6 - 8
EPDM (E)	120	Acids and non mineral oils.	Dry cotton (AS)	50	6 - 8
Nitrile (N)	120	Resistance to petroleum products.	PTFE impregn. natural fibre (NT)	120	4 - 12
Viton (V)	200	General chemical service.	PTFE impregn. synth. fibre (ST)	240	2 - 13
		High temperature.	Braided PTFE (TH)	260	0 - 14
Silicone (S)	250	Food service. / High temperature.	Graphited (AG)	300	4 - 12
PTFE (T)	250	Corrosion resistance.	Ceramic fibre (FC)	1200	—
More details and other materials under request.			NOTE: all types include an elastomere O-ring (same material as seal), excluding TH, AG and FC.		

SEAT TYPES

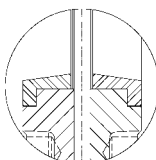
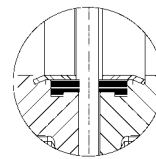
Cast Iron



METAL / METAL

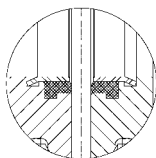
Used for high temperature or in applications where tight shutoff is not required. UHMW polyethylene seat sliders for smoother gate travel (stainless steel version only).

Stainless Steel



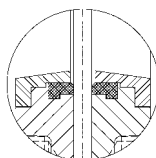
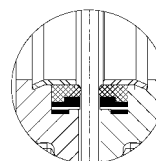
METAL / METAL, TYPE "B"

Two replaceable reinforced "B" type rings (available in AISI 316, Ni-hard, CA-15,...) protect the seat in abrasive services.



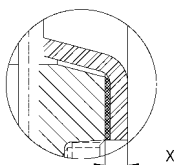
RESILIENT, TYPE "A"

The standard resilient seat design consists of an elastomer seal locked to the valve body with a replaceable stainless steel retainer ring. Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information. UHMW polyethylene seat sliders for smoother gate travel (stainless steel version only).



RESILIENT, TYPE "B"

The two replaceable reinforced seal retainer rings (available in AISI 316, Ni-hard, CA-15,...) protect the seat in abrasive services. Temperature limitations according to seat material selected. Consult the above chart or our technical department for more information.



DEFLECTION CONE "C"

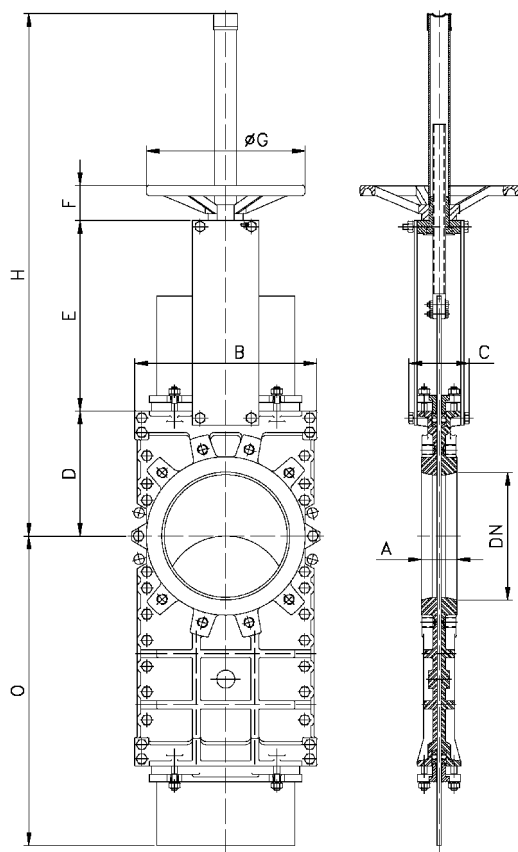
Deflects the media away from any internal exposed parts of the valve such as gate guides, seat, etc.... Different types of material available such as AISI 316 stainless, CA15, Ni-Hard, etc....

Face to face dimensions increase: DN 50 to DN 250 = 9mm
DN 300 to DN 600 = 12mm

L50

M O D E L

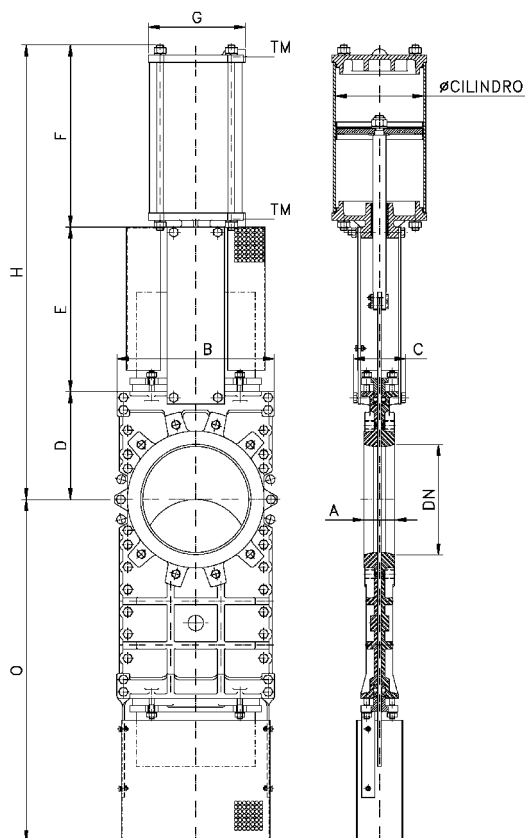
HANDWHEEL (RISING STEM)



- Standard handwheel actuator.
- Consists of:
 - Handwheel: Epoxy coated Cast Iron or Steel (DN 50 to DN 300)
 - Stem
 - Stem nut
 - Stem protector
 - Grease nipple
- Available in DN 50 to DN 600
- Options (on request):
 - Locking Device
 - Extensions

DN	A	B	C	D	E	F	ØG	H	O MAX.	WEIGHT (KG.)
50	40	152	90	110	135	48	200	429	230	12
65	40	167	90	115	152	48	200	456	270	14
80	50	182	90	124	168	48	200	481	310	16
100	50	202	90	140	193	48	200	522	365	20
125	50	216	104	150	217	52	250	606	430	29
150	60	241	104	175	243	52	250	657	495	35
200	60	294	118	205	318	63	300	830	635	62
250	70	356	118	245	373	63	300	1025	775	89
300	70	410	118	280	423	63	300	1110	905	110
350	96	473	193	300	503	68	410	1303	1045	174
400	100	538	193	350	553	68	410	1403	1170	266
450	106	588	197	420	603	68	550	1598	1300	326
500	110	646	197	450	663	68	550	1688	1460	372
600	110	754	197	530	763	68	550	1978	1710	445

PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 7 kg/cm²
- For valves installed in a horizontal position, we recommend U-type support plates and/or actuator support.
- Options:
 - Hard anodised jacket and covers
 - Over / Under sized cylinder
 - Stainless jacket and covers
 - Manual override
 - Fail Safe System
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

DN	A	B	C	D	O MAX.	E	F	G	H	WEIGHT (KG.)	STANDARD CYL. CONNECT.
50	40	152	90	110	230	135	170	95	410	14	C80/62 1/4" G
65	40	167	90	115	270	152	186	95	453	16	C80/77 1/4" G
80	50	182	90	124	310	168	204	95	496	18	C80/95 1/4" G
100	50	202	90	140	365	193	225	115	558	23	C100/115 1/4" G
125	50	216	104	150	430	217	268	140	635	34	C125/143 1/4" G
150	60	241	104	175	495	243	292	140	710	41	C125/168 1/4" G
200	60	294	118	205	635	318	355	175	878	73	C160/220 1/4" G
250	70	356	118	245	775	373	413	220	1036	105	C200/270 3/8" G
300	70	410	118	280	905	423	463	220	1166	128	C200/320 3/8" G
350	96	473	193	300	1045	503	541	277	1344	207	C250/375 3/8" G
400	100	538	193	350	1170	553	591	277	1494	300	C250/425 3/8" G
450	106	588	197	420	1300	603	669	382	1692	378	C300/475 1/2" G
500	110	646	197	450	1460	663	719	382	1832	445	C300/525 1/2" G
600	110	754	197	530	1710	763	819	382	2112	619	C350/625 1/2" G

L56

MODEL

RUBBER SLEEVE KNIFE GATE VALVE



The **L56** model knife gate is a wafer valve designed for a wide range of industrial applications. The double-seated design provides bi-directional shut off. The design of the valve body and the two rubber sleeves makes the L56 valve suited for use in handling abrasive slurries in industries such as:

- Mining
- Chemical plants
- etc.
- Power plants
- Wastewater treatment

Sizes : DN 50 to DN 600 (larger DN on request)

Working pressure :

DN 50 to DN 125:	9 (kg/cm ²)
DN 150:	6 (kg/cm ²)
DN 200 to DN 250:	5 (kg/cm ²)
DN 300:	4 (kg/cm ²)
DN 350 to DN 400:	3 (kg/cm ²)
DN 450 to DN 600:	2,5 (kg/cm ²)

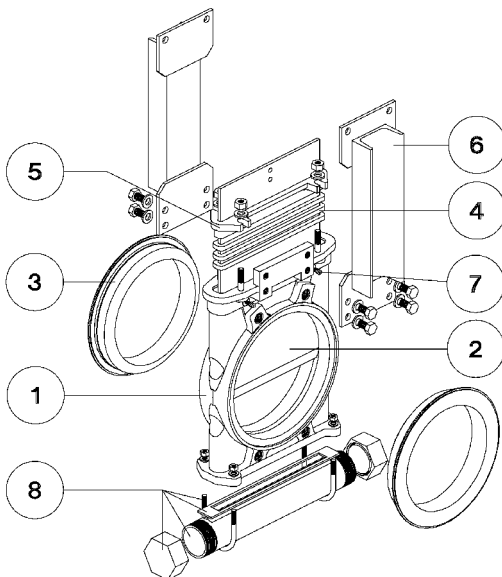
Note: Availability for gate manufacturing in other materials to achieve higher working pressures. Please consult our technical department.

Standard Flange connection: DIN PN 10 and ANSI B16.5 (class 150)

Other : (On request)

DIN PN 6	DIN PN 16	DIN PN 25
BS "D" and "E"	ANSI 125	
Standard face to face dimensions according to MSS SP-81		

All LUCAVAL valves are tested prior to shipping.



STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Gate	AISI 304	AISI 316
3- Sleeves	Natural rubber	
4- Packing	AH	NT
5- Gland Follower	S.G. Iron/ Carbon Steel	AISI 316
6- Support Plate	Carbon Steel - Epoxy coated	
7- Grease Nipple	acc. to DIN 3402	
8- Splash guard (optional)	see options	

L56

MODEL

SEAT / SEALS

Material	Max. Temp(°C)	Aplicaciones
Natural rubber	75	General
EPDM	120	Acids and non mineral oils
Neoprene	90	Oils and solvents.
Chlorobutyl	125	High temperatures

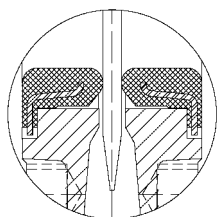
All of them are reinforced with a stainless steel core.

PACKINGS

Material	Max. Temp. (°C)	pH
Tallowed cotton (AH)	50	6 - 8
Dry cotton (AS)	50	6 - 8
PTFE impregn.natural fibre (NT)	120	4 - 12
PTFE impregn. synth. fibre (ST)	240	2 - 13
Braided PTFE (TH)	260	0 - 14

NOTE: All types include an elastomere O-ring, except TH.

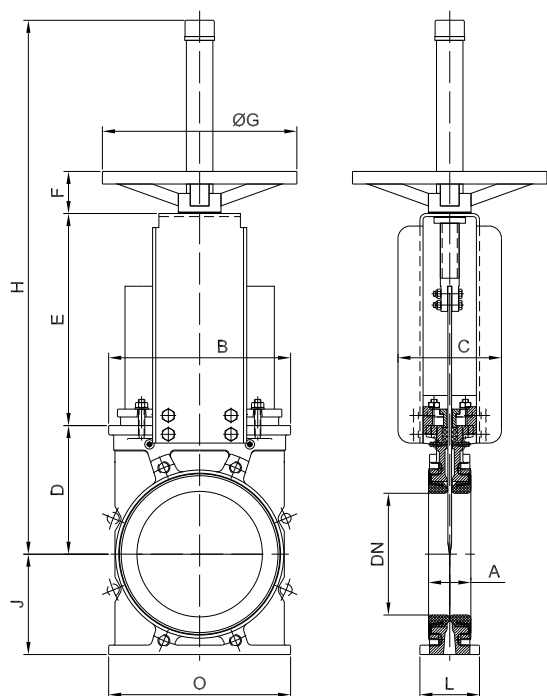
SEAT



SEAT SYSTEM

Double-seated design, bi-directional. The easily replaceable moulded elastomer sleeves form a tight seal against each other when the valve is open (providing free port and protecting metal parts) and seal against the gate when the valve is closed.

HANDWHEEL (RISING STEM)



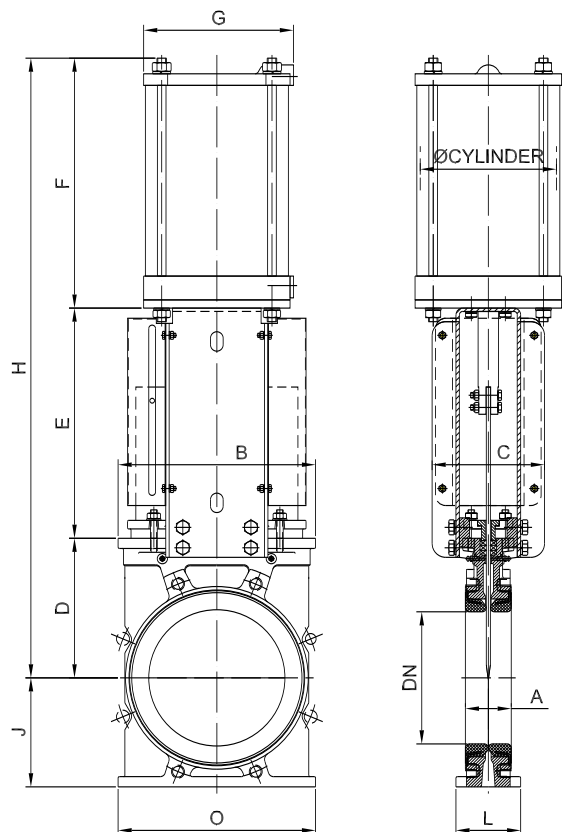
- Standard handwheel actuator
- Consists on:
 - Handwheel: Epoxy coated Cast Iron
 - Stem
 - Stem nut
 - Stem protector
- Available from DN 50 to DN 600
 - Higher DN on request
- Options (on request):
 - Locking Device
 - Extensions and floor stand

DN	A	B	C	D	E	F	ØG	H	J	L	O	WEIGHT (KG.)
50	48	139	100	105	162	47	225	456	63	69	180	10
65	48	154	100	115	187	47	225	495	70	69	195	13
80	51	174	100	124	211	47	225	575	90	82	195	14,5
100	51	178	100	140	255	67	310	670	100	82	225	22
125	57	206	100	150	278	67	310	733	123	82	215	24
150	57	231	100	175	309	67	310	789	130	82	245	26
200	70	290	270	205	363	68	410	971	160	95	290	39,5
250	70	346	270	245	439	70	410	1103	200	95	350	63
300	76	398	270	280	492	70	410	1271	232	95	405	72
350	76	447	290	325	548	70	550	1372	258	118	460	96
400	89	503	290	350	628	97	800	1617	292	118	510	188
450	89	556	290	420	681	97	800	1795	318	118	570	216
500	114	618	290	462	755	97	800	1951	345	130	630	274
600	114	724	290	510	866	97	800	2220	400	130	740	318

L56

MODEL

PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless Steel (AISI 304) piston rod
 - Nitrile coated steel piston
- Available from DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 10 kg/cm²
- Reinforced design of support plates (U-type) is standard starting from DN 200.
- Options (on request):
 - Hard anodized jacket and covers
 - Over / Undersized cylinder
 - Stainless Steel jacket and covers
 - Manual override
 - Fail safe system
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Flow regulators
 - Solenoid valves
 - Air preparation units

DN	A	B	C	D	E	F	G	H	J	L	O	WEIGHT(kg.)	STANDARD CYL.	CONNECT.
50	48	139	100	105	162	203	115	476	63	69	180	12	C100/95	1/4" G
65	48	154	100	115	187	222	115	530	70	69	195	15	C100/110	1/4" G
80	51	174	100	124	211	249	140	590	90	82	195	17	C125/125	1/4" G
100	51	178	100	140	255	283	175	678	100	82	225	25	C160/150	1/4" G
125	57	206	100	150	278	308	175	736	123	82	215	28	C160/175	1/4" G
150	57	231	100	175	309	338	175	822	130	82	245	31	C160/205	1/4" G
200	70	290	270	205	363	408	220	976	160	95	290	50	C200/260	3/8" G
250	70	346	270	245	445	490	277	1180	200	95	350	78	C250/320	3/8" G
300	76	398	270	280	497	565	382	1342	232	95	405	88	C300/365	1/2" G
350	76	447	270	325	553	610	382	1488	258	118	460	132	C300/415	1/2" G
400	89	503	290	350	613	704	444	1667	292	118	510	232	C350/475	3/4" G
450	89	556	290	420	666	754	444	1840	318	118	570	268	C350/525	3/4" G
500	114	618	290	462	742	823	515	2027	345	130	630	340	C400/575	3/4" G
600	114	724	290	510	853	933	515	2296	400	130	740	396	C400/685	3/4" G
750	152	980	430	650	1190	1062	483	2902	535	140	965	340	C450/880	3/4" G
900	203	1176	320	700	1400	1190	535	3290	635	170	1176	396	C500/1000	3/4" G

L65

MODEL

HOPPER SHAPE KNIFE GATE VALVE



The **L65** model knife gate is a uni-directional wafer valve designed for industrial bulk handling service applications (powdered and granular products). The special design of the body allows for easy passage of the fluid and makes it ideal for use as silo outlet valve. Widely used in industries such as:

- Power plants
- Chemical plants
- etc.
- Food and Beverage
- Mining

The valve is normally installed in the reverse position (seat upstream) in order to avoid problems like build-up in valve body, seat wear, difficult closing,...

Sizes: DN 50 to DN 600 (larger diameters on request)

Working pressure:

DN 50 to DN 250	10 (kg/cm ²)
DN 300 to DN 400	6 (kg/cm ²)
DN 450	5 (kg/cm ²)
DN 500 to DN 600	4 (kg/cm ²)

SEAT OPPOSITE PRESSURE

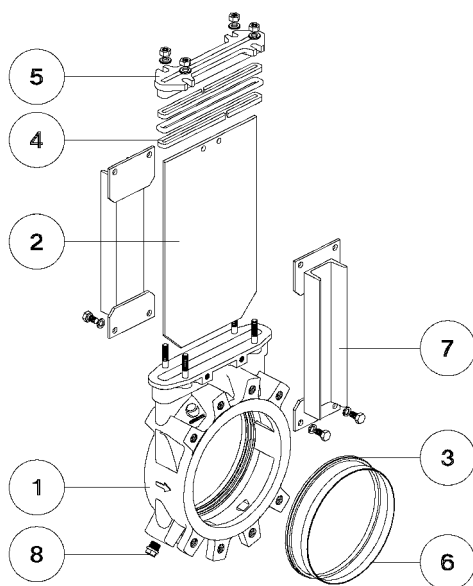
DN 50 to DN 250	3 (kg/cm ²)
DN 300 to DN 400	2 (kg/cm ²)
DN 450	1.5 (kg/cm ²)
DN 500 to DN 600	1 (kg/cm ²)

Standard flange connection:

DIN PN 10 and ANSI B16.5 (class 150)

Note: other flange connections are available on request.

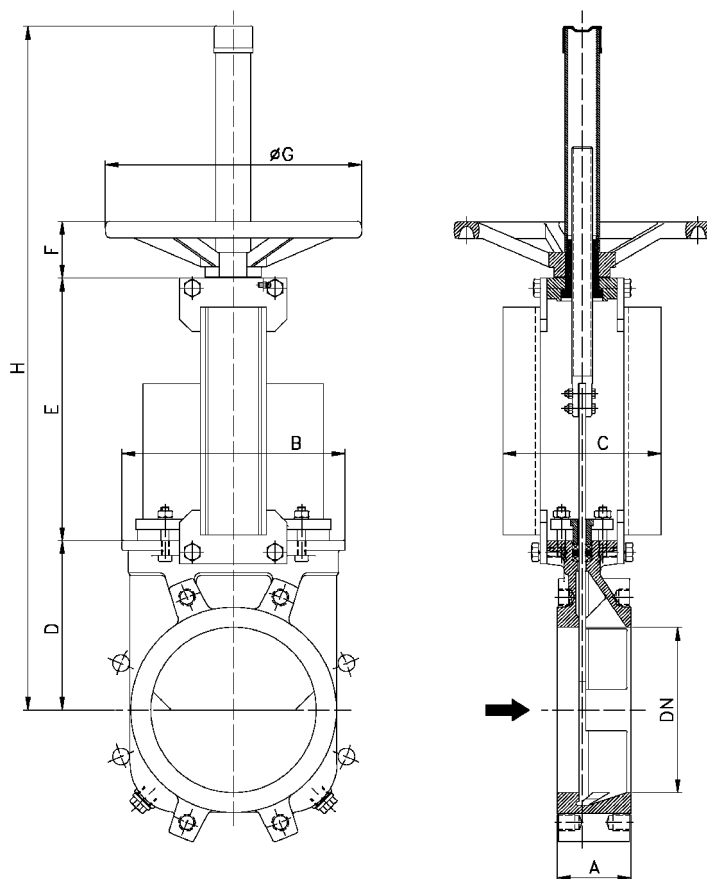
All valves are tested prior to shipping in accordance with the standard developed by the Quality Control department at LUCAVAL.



STANDARD PARTS LIST

Part:	Cast Iron:	Stainless Steel:
1- Body	GG25	CF8M
2- Gate	AISI 304	AISI 316
3- Seat	Metal or EPDM	
4- Packing	AH	NT
5- Gland Follower	Aluminum (DN 50 to DN 300) S.G. Iron (DN 350 to DN 600)	CF8M
6- Seat retainer ring	AISI 304	AISI 316
7- Support Plates	Carbon Steel - Epoxy coated	
8- Cap	Carbon Steel	

HANDWHEEL (RISING STEM)



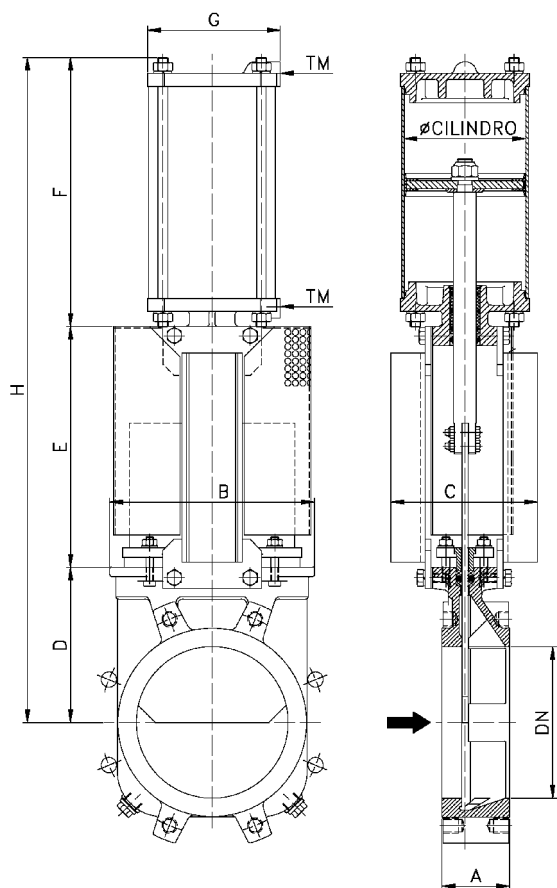
- Standard handwheel actuator.
- Consists of:
 - Handwheel: Epoxy coated Cast Iron or Steel (DN 50 to DN 300)
 - Stem
 - Stem nut
 - Stem protector
 - Grease nipple
- Available in DN 50 to DN 600
- Options:
 - Locking Device
 - Extensions

DN	A	B	C	D	E	F	ØG	H	WEIGHT (KG.)
50	46	124	90	105	135	48	200	429	7
65	46	139	90	115	152	48	200	455	8
80	64	154	90	124	168	48	200	481	9
100	64	174	90	140	193	48	200	522	11
125	70	192	104	150	217	52	250	605	15
150	76	217	104	170	243	52	250	652	18
200	89	270	187	205	318	63	300	830	30
250	114	326	187	240	373	63	300	1020	44
300	114	380	187	280	423	63	300	1110	58
350	127	438	290	320	503	68	410	1323	96
400	140	493	290	350	553	68	410	1395	124
450	152	546	290	420	603	68	550	1598	168
500	152	620	290	450	663	68	550	1688	192
600	178	714	290	530	763	68	550	1978	245

L65

MODEL

PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless (AISI 304) piston rod
 - Nitrile coated steel piston
- Available in DN 50 to DN 600
- Supply Pressure: minimum 3.5 kg/cm² - maximum 7 kg/cm²
- Reinforced design of support plates (U-type) is standard starting from DN 200.
- Options:
 - Hard anodised jacket and covers
 - Over / Under sized cylinder
 - Stainless jacket and covers
 - Manual override
 - Fail safe system
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

DN	A	B	C	D	E	F	G	H	WEIGHT (KG.)	STANDARD CYL.	CONNECT.
50	46	124	90	105	135	170	95	410	9	C80/62	1/4" G
65	46	139	90	115	152	186	95	453	10	C80/77	1/4" G
80	64	154	90	124	168	204	95	496	11	C80/95	1/4" G
100	64	174	90	140	193	225	115	558	14	C100/115	1/4" G
125	70	192	104	150	217	268	140	635	20	C125/143	1/4" G
150	76	217	104	170	243	292	140	705	25	C125/168	1/4" G
200	89	270	187	205	318	355	175	878	44	C160/220	1/4" G
250	114	326	187	240	373	413	220	1026	67	C200/270	3/8" G
300	114	380	187	280	423	463	220	1166	82	C200/320	3/8" G
350	127	438	290	320	503	541	277	1364	135	C250/375	3/8" G
400	140	493	290	350	553	591	277	1494	165	C250/425	3/8" G
450	152	546	290	420	603	669	382	1692	220	C300/475	1/2" G
500	152	620	290	450	663	719	382	1832	280	C300/525	1/2" G
600	178	714	290	530	763	819	382	2112	330	C300/625	1/2" G

L90

M O D E L

TILTING DISC CHECK VALVE



The **L90** model check valve is a reliable metal seated non-return valve with oblique seating angle widely used in industries such as:

- Pulp and Paper
- Wastewater treatment Plants
- Food and Beverage
- etc.

Sizes: DN 40 to DN 900 (larger diameters on request)

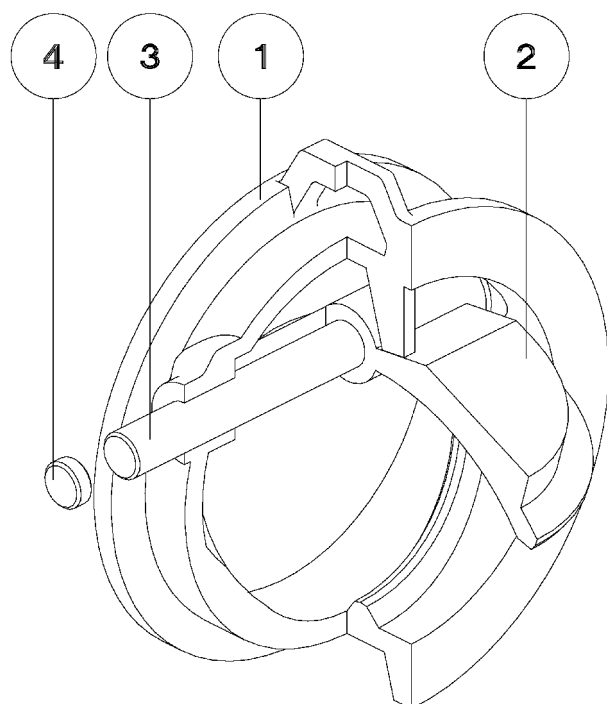
Working pressure: DN 40 to DN 150: 25 (kg/cm²)
DN 200 to DN 500: 16 (kg/cm²)
DN 600 to DN 900: 10 (kg/cm²)

Standard flange connection: DIN PN 10
ANSI B16.5 (class 150)

Other flange connections are available on request.

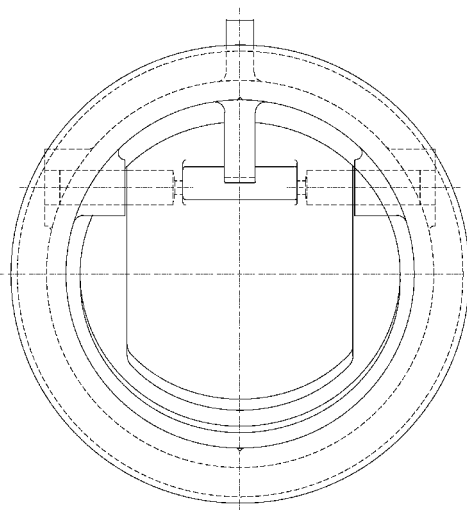
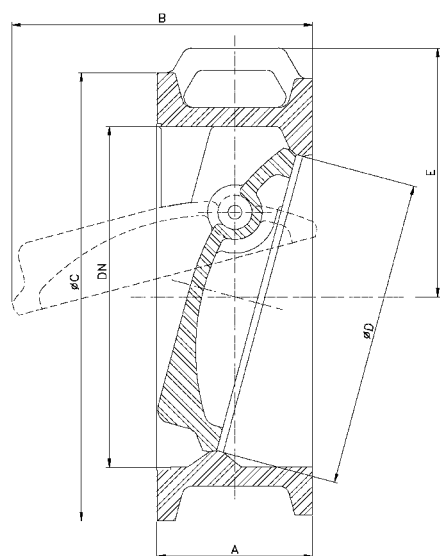
Face to face dimensions acc. to K3 DIN 3202

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control department at LUCAVAL.



STANDARD PARTS LIST

Part:	Stainless steel:
1- Body	CF8M
2- Disc	CF8M
3- Shaft	AISI 316
4- Cover	AISI 316



- The L90 check valve consists of:
 - body
 - disc
 - shaft
 - covers
- Sizes: DN 40 to DN 900
- Options (on request):
 - Auxiliary spring
 - Counterweight, with or without dashpot.

DN	A	B	ØC(PN10)	ØC(ANSI150)	ØD	E	WEIGHT (KG.)
40	33	45	92	84	34	--	0,8
50	43	54	107	102,5	44	--	1
65	46	64	127	121,5	58	--	2
80	64	85	142	134,5	72	--	3
100	64	98	162	172,5	90	--	4,5
125	70	116,5	194	194	112	--	6,5
150	76	136	219	219	135	--	7,5
200	89	222,5	273	273	180	155	15
250	114	221	329	337,5	225	182,5	26,5
300	114	251	378	407,5	270	210	33,5
350	127	294	438	448,5	315	240	54
400	140	340	490	512	365	275	65,5
450	152	370	540	548	410	300	92
500	152	405	594	604	460	325	110
600	178	497	696	715,5	555	390	178
700	229	616	810	800	650	460	245
750	229	613	--	880	650	485	310
800	241	675	917	937	745	515	385
900	241	750	1018	1012	835	562	445

M08

M O D E L

SQUARE PORT KNIFE GATE VALVE



The **M08** model knife gate is a square port low-pressure valve for highly solid loaded fluids or solids, mainly used in bulk handling and silo outlet applications in industries such as:

- Chemical plants
- Power plants
- Food and Beverage
- Wastewater treatment Plants
- Mining
- etc.

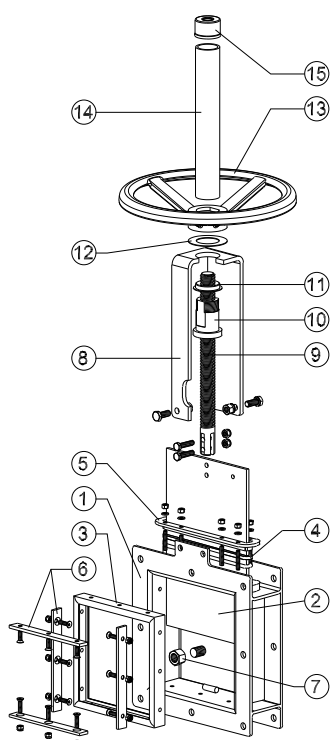
Sizes: From 150 x 150 to 600 x 600 (other dimensions on request)

Working pressure: Fabricated valve
150 x 150 to 600 x 600: 1 kg/cm²
For higher pressure: Casted bodies (on request)

Standard flange connection: please refer to the table on page BC-8.
Other flange connections available on request.

Directives: DIR 98/37/CE (MACHINES)
DIR 97/23/CE (PED) Fluid: Group 1(b), 2 (Cat. I, mod. A)
DIR 94/9/CE (ATEX) Group II, Cat. 3: zones 2 and 22

All valves are tested prior to shipping in accordance with the standard developed by the Quality Control Department at LUCAVAL.



STANDARD PARTS LIST

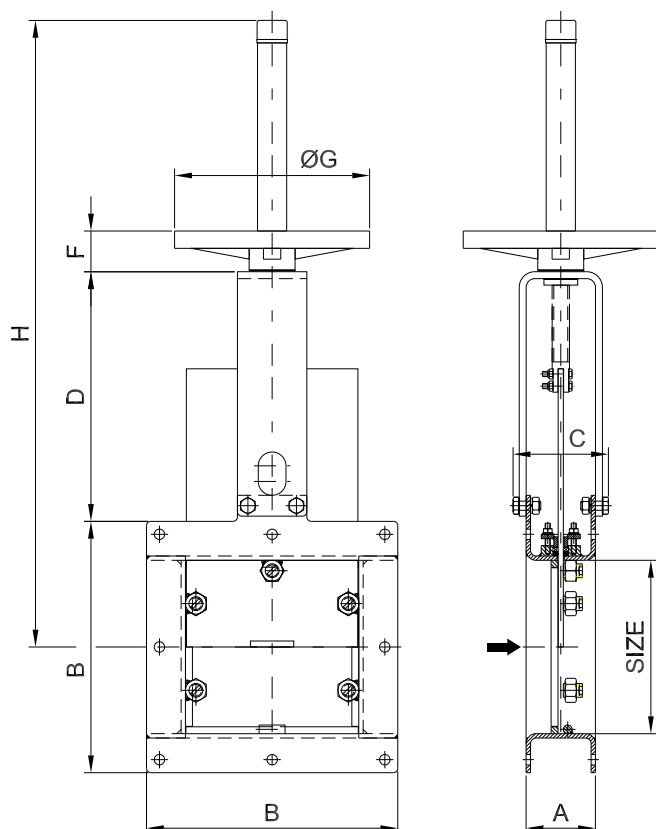
Part:

1- Body	Carbon Steel	AISI 316
2- Gate	AISI 304	AISI 316
3- Seat	Metal or EPDM	
4- Packing	AH	ST
5- Gland Follower	Carbon Steel	AISI 316
6- Seal retainer plate	Carbon Steel	AISI 316
7- Slider support	Carbon Steel or AISI-316 + Nylon or PTFE	
8- Yoke	Carbon Steel - Epoxy coated	
9- Stem	AISI 303	
10- Stem nut	Brass	
11- Collar	Nylon	
12- Friction washer	Brass	
13- Handwheel	$\phi \leq 310$: Ductile Iron / $\phi \geq 410$: GJI 250 (GG25)	
14- Stem protector	Epoxy-coated Carbon Steel	
15- Cap	Plastic	

M08

M O D E L

HANDWHEEL (RISING STEM)

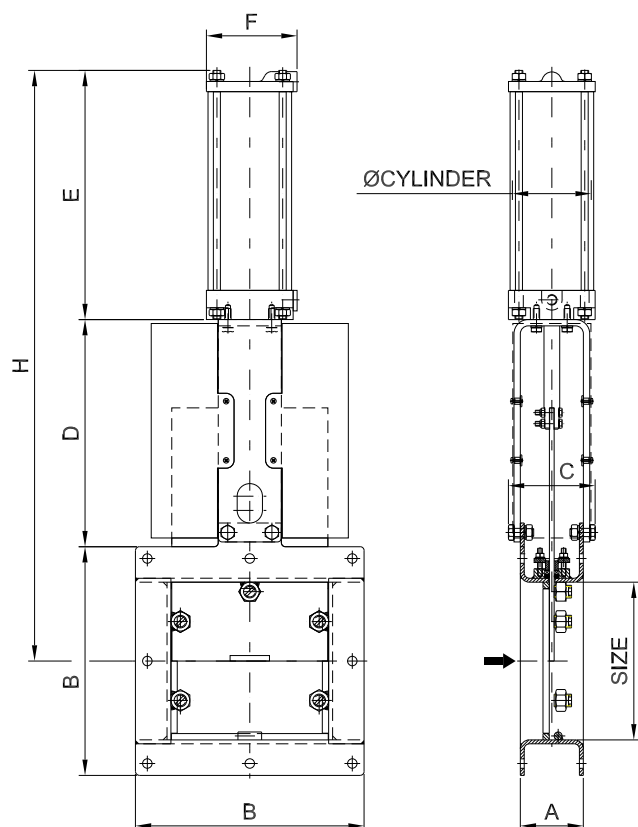


Standard handwheel actuator.

- Consists on:
 - Handwheel: Epoxy coated Cast Iron
 - Stem
 - Stem nut
 - Stem protector
- Available from 150 x 150 to 600 x 600
- Options:
 - Locking Device
 - Extensions

SIZE	A	B	C	D	ØG	F	H	WEIGHT (KG.)
150 x 150	80	240	110	219	225	47	580	23
200 x 200	80	290	115	288	310	67	740	27
250 x 250	80	340	115	338	310	67	915	32
300 x 300	80	390	115	388	310	67	990	38
350 x 350	100	450	137	444	410	68	1165	58
400 x 400	100	500	137	494	410	68	1240	66
450 x 450	100	550	137	544	410	68	1390	75
500 x 500	100	600	137	594	410	68	1575	85
600 x 600	100	700	137	694	410	68	1725	110

PNEUMATIC CYLINDER



- The standard pneumatic actuator (double acting on-off cylinder) consists of:
 - Aluminium jacket and covers
 - Stainless steel (AISI 304) piston rod
 - Nitrile coated steel piston
- Available from 150 x 150 to 600 x 600
- Supply Pressure: minimum 3.5 kg/cm²
maximum 10 kg/cm²
- Options:
 - Hard anodized jacket and covers
 - Over / Undersized cylinder
 - Stainless Steel jacket and covers
 - Manual override
 - Fail safe systems
 - Travel stops
- Instrumentation (on request):
 - Positioners
 - Solenoid valves
 - Flow regulators
 - Air preparation units

SIZE	A	B	C	D	E	F	H	WEIGHT (KG.)	STANDARD CYL.	CONNECT.
150 x 150	80	240	110	219	266	115	605	25	C100/150	1/4" G
200 x 200	80	290	115	288	317	115	750	30	C100/200	1/4" G
250 x 250	80	340	115	338	367	115	875	35	C100/250	1/4" G
300 x 300	80	390	115	388	417	115	1000	42	C100/300	1/4" G
350 x 350	100	450	137	444	485	140	1154	63	C125/355	1/4" G
400 x 400	100	500	137	494	535	140	1279	72	C125/405	1/4" G
450 x 450	100	550	137	544	585	140	1404	80	C125/455	1/4" G
500 x 500	100	600	137	594	650	175	1544	98	C160/510	1/4" G
600 x 600	100	700	137	694	750	175	1794	125	C160/610	1/4" G

Note: For higher real working pressure (casted bodies), contact our technical department in order to oversize the actuator properly.